

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (CURRENTLY AMENDED) A rechargeable lithium storage cell including a positive electrode, whose electrochemically active material includes one or more oxides of a transition metal, and a negative electrode, consisting of a conductive support and an active layer containing a non-fluorinated polymeric binder and an electrochemically active material which is a mixed oxide of lithium and titanium with the general formula $\text{Li}_x\text{Ti}_y\text{O}_4$ in which $0.8 \leq x \leq 1.4$ and $1.6 \leq y \leq 2.2$, in which storage cell said binder is ~~a polymer containing no fluorine~~ includes a mixture of an elastomer and a cellulose compound.
2. (CURRENTLY AMENDED) The storage cell claimed in claim 1 wherein said non-fluorinated polymeric binder is soluble in water or capable of forming a stable emulsion in suspension in water.
3. (CANCELED)
4. (CURRENTLY AMENDED) The storage cell claimed in claim ~~3~~1 wherein said elastomer is selected from ~~an~~ the group consisting of acrylonitrile/butadiene copolymer and a styrene/butadiene copolymer.

5. (CURRENTLY AMENDED) The storage cell claimed in claim ~~3~~1 wherein the proportion of said elastomer is from 30 wt% to 70 wt% of said binder.

6. (CANCELED)

7. (CURRENTLY AMENDED) The storage cell claimed in claim ~~6~~1 wherein said cellulose compound is carboxymethylcellulose.

8. (CURRENTLY AMENDED) The storage cell claimed in claim ~~6~~1 wherein the proportion of said cellulose compound is from 30 wt% to 70 wt% of said binder.

9. (CANCELED)

10. (CURRENTLY AMENDED) The storage cell claimed in claim ~~9~~1 wherein said binder includes a mixture of carboxymethylcellulose and an acrylonitrile/butadiene copolymer.

11. (CURRENTLY AMENDED) The storage cell claimed in claim ~~9~~1 wherein said binder includes a mixture of carboxymethylcellulose and a styrene/butadiene copolymer.

12. (CURRENTLY AMENDED) The storage cell claimed in claim ~~9~~1 wherein the proportion of said elastomer is from 30 wt% to 70 wt% of said binder and the proportion of said cellulose compound is from 30 wt% to 70 wt% of said binder.
13. (CURRENTLY AMENDED) The storage cell claimed in claim ~~9~~1 wherein the proportion of said elastomer is from 50 wt% to 70 wt% of said binder and the proportion of said cellulose compound is from 30 wt% to 50 wt% of said binder.
14. (CURRENTLY AMENDED) The storage cell claimed in claim 1 wherein the active material of said positive electrode includes one or more oxides of a transition metal, selected from the group consisting of vanadium oxide, lithium manganese oxide, lithium nickel oxide, lithium cobalt oxide, and mixtures thereof.
15. (WITHDRAWN) A method of fabricating a storage cell as claimed in claim 1, including the following steps for producing said negative electrode:
- placing said binder in the form of a solution or a dispersion in an aqueous solvent,
 - adding said powdered active material and optional fabrication auxiliaries to said solution or dispersion to form a paste,
 - adjusting the viscosity of said paste with water,
 - covering at least one face of said conductive support with paste to form said active layer, and

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/028,918

Our Ref.: Q67910
Art Unit: 1745

- drying and rolling said support covered with said active layer to obtain said electrode.